MODEL PAPER MATHEMATICS GENERAL CLASS 9

Note: Attempt all questions of Section A by filling the corresponding bubble on the MCQs RESPONSE SHEET. It is mandatory to return the attempted MCQs sheet to the Superintempent within given time.

SECTION-A

01:	Choose	the	correct	option.
QΙ.	CHOOSE	LIIC	COLLECT	option.

Allowed time 20 minutes Maximum Marks 15

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1.	Ratio between	4 grams and	12 grams	in simp	lest form	n is		
	a. 1:1	b. 1:2	c. 1:3	9	d. 1:4			
2.	If X:3::8:6 is a	proportion th	nen X = _					
	a. 4	b. 6	c. 8	3	d. 24			
3.	Zakat payable o	on Rs. 50000 i	s					
	a. Rs. 1300	b. Rs. 1240	c. Rs. 12	.50	d. Rs. 12:	15		
4.	If cost price is F	Rs. 430 and sa	le price is	Rs. 48	8. The pr	ofit is Rs		
	a. 56	b. 58	c. 48)	d. 68			
5.	Marked price is	s Rs. 550. Sale	price is R	Rs. 418.	Discoun	t percentage	is	
	a. 24%	b. 22%	c. 21.5%	,	d. 23%			
6.	Markup is the p	orofit received	d by					000
	a. Customer	b. Ban	k d	. Gove	rnment	d. Orga	anization	5(0)(1)(1)
7.	Property Tax =	Rate X			Dr	MM	// G70,	
	a. Price of iter	m	b. Value	of pro	perty \	NIMI	U	
	C .Excise Duty	QNr	d. Capit	one who	Jan.			
	C .LXCISE Duty	- 0 []]	a. Capit	value	- lax			
8.	GST stands for	4KJ 6	_					
	a. General Sales Tax b. Government Standard Tax							
	C .Government Simple Tax d. Grand Service Tax							
9.	$X^{m} * X^{n} = _{}$	_						
	a. X^{mn}	b. X^{m+n}			c. $X^{m/n}$		$d. X^{n/m}$	
10	$1. \log_2 X = 3$, the	n X =						
	a. 8		c. 6		d. 23			
11	Arithmetic mea	an between 6	and 2 is					
		b. 4	c. 12					
12	. Geometric mea	an between 3	and 27 is		_			
	a. ±4	b. ±6	c. ±9		d. ±81			
13	3. (A')' =							
	a. A'	b. Empty Set	C	c. A	d	. U		
14	. The point (-3 , 4	4) is located in	า					-ara
	a. 1 st Quadran	nt b. 2 nd	Quadrant	: (c. 3 rd Qua	adrant	d. 4th Quadra	
15	. In the data {2, 3	3, 7, 2, 9, 4}, r	node is _		1/5	17m)	// G70,	
				175	/(MILL	U	
		9/10	201	1/	100			
		00////	1777					
	MARINE	Monn						
	Maga	-						

a. 3

Time: 2Hours 40 Minutes

b. 1

c. 9

d.

Q1. Attempt any 9 of the following short questions. Each question carries equal marks.

- 1. Hafsa got 84% of the total marks in her annual examination. If she had obtained 861 marks. Find out total marks in the examination?
- 2. Hafeez had trade goods worth Rs.175,000 and a cash amount of Rs. 90,000. If his wife possessed jewelry worth Rs. 84,000, find the amount of zakat payable by him?
- 3. Ali bought 8 dozen eggs at the rate of Rs. 70 per dozen. 6 eggs were found broken. He sold remaining eggs at the rate of Rs. 7 per egg. Find his profit or loss.
- 4. Mr. Jawad deposits Rs. 90,000 in a Profit Loss Saving (PLS) account. If the profit rate is 12% then how much profit would he get after two months
- 5. If the worth of the property of a person is Rs. 5,000,000. How much tax would he pay at the rate
- 6. Simplify: $\sqrt{\frac{X^b}{X^c}} \times \sqrt{\frac{X^c}{X^a}} \times \sqrt{\frac{X^a}{X^b}}$
- 7. $\log_8 x = \frac{4}{3}$
- 8. Find the 10th term of an Arithmetic Progression (AP) 18, 15, 12, 9,...
- 9. Find three geometric means between $\frac{1}{27}$ and 3.
- 10. Plot the points W,X,Y and Z in the XY plane: W(3,1), X(-2,-4), Y(-5,6), Z(3,-3).
- 11. Salam has a post-paid connection. Last month he consumed a total of 3 hours and 20 minut time for calls. If per 30 seconds call charges is Rs.0.50, then what was his bill?
- 12. If X = {1, 2, 3} and Y={4, 5, 6}, Write an ONTO function from X to Y

SECTION-

Marks: 24

Marks: 36

Note: Attempt any three of the following. Each question carries equal marks.

- Q2. 12 men take 5 hours to spray insecticides on fruit trees spread over 40 hectares. How many men will be required to spray 32 hectares area in 8 hours?
- Q3. Draw the graph of equation: 3x + y = 6
- Q4. From the following distribution

Daily Wages (In Rupees)	112 – 116	117 – 121	122 – 126	127 – 131	132 – 136
Number of Workers	3	20	11	4	5

- Construct a table.
- Find the class boundaries for each group ii.
- iii. Calculate Median wages.

Q5. If $U = \{1, 2, 3, 4, 5, 6, 7\}$, $A = \{1, 2, 3\}$, $B = \{3, 4, 5\}$. Then with the help of Venn diagram verify www.slimiksidui

Demorgan's Law: $(A \cup B)' = A' \cap B'$